

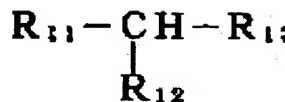
NONAQUEOUS ELECTROLYTE SECONDARY BATTERY

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Abstract of JP10074537

PROBLEM TO BE SOLVED: To increase capacity and enhance charge/discharge cycle characteristics by containing a specific compound in an electrolyte. **SOLUTION:** In general formula (1) R₁₁ represents an aryl group, R₁₂, R₁₃ represent a hydrogen atom, an alkyl group, an alkenyl group, an alkynyl group, an aralkyl group, an aryl group, or a heterocyclic residual group. The compound represented by formula (1) may be added to either one of a positive electrode, a negative electrode, and an electrolyte, but is preferable to be added to the electrolyte from the standpoint of the mechanism of action. The adding amount is 5-20g to 1kg of the electrolyte. A hydrogen atom on carbon in the vicinity of the aryl group is easy to be drawn out as a radical, the compound represented by formula (1) preferentially reacts with active oxygen generated in the positive electrode, and the decomposition of an electrolyte solvent is prevented. Thereby, capacity is increased, and drop in discharge capacity attendant on charge/discharge cycles is prevented.



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